		ı	BA	Y	AR	E/	A	IR I	PO	LL	.U1	ΠΟ	N	SU	MN	VA	RY -	— :	20	02	2	—Se		TES on his page		of
MONITORING STATIONS	OZONE				CARBON NITROGEN MONOXIDE DIOXIDE			SULFUR DIOXIDE			PM ₁₀				PM _{2.5}											
		Nat Days		3-Yr Avg	Max 8-Hr		3-Yr s Avg	Max 1-Hr	Max N 8-Hr	lat/Cal Days	Max 1-Hr	Ann N Avg		Max 24-Hr		Nat/Cal Days	Ann Geo	Ann Avg 2				Max 24-Hr		3-Yr S Avg	Ann Avg	3-Yr Avg
North Counties	(pph	m)			(pph	m)		(ppm)			(pph	m)		(ppb)			Mean (µg/m³)				(μg/m	3)		(μg/m	1 ³)
Napa San Rafael Santa Rosa Vallejo	12 8 8 11	0 0 0 0	1 0 0 1	0.0 0.0 0.0 0.0	8 6 6 7	0 0 0 0	6.3 4.7 5.2 5.9	4.2 4.1 3.7 5.8	2.4 1.9 2.1 3.9	0 0 0	5 6 5 5	1.3 1.7 1.3 1.3	0 0 0	- - - 4	- - - 1.3	- - - 0	22.6 19.1 17.8 18.7	25.4 21.4 19.7 21.4	70 60	0 0 0 0	4 2 2 1	- - 51 72	- - 0 1	- 40.2 51.3	- 10.5 13.6	
Coast & Central Bay	_																									
Oakland Richmond San Francisco San Pablo*	5 - 5 7	0 - 0 0	0 - 0 0	0.0 - 0.0 0.0	4 - 5 5	0 - 0 0	4.0 - 4.4 4.5	4.4 - 3.5 3.7	3.3 - 2.6 1.8	0 - 0 0	- - 8 5	- 1.9 *	- 0 0	5 6 5	1.0 1.9 *	0 0 0	- - 21.0 *	- - 24.7 *	- - 74 67	- 0 0	- 2 3	- - 70 -	- - 4 -	- 48.0 -	- - 13.1 -	- - 11.9 -
Eastern District																										
Bethel Island Concord Crockett	11 10 -	0	5 5 -	0.3 0.7	10 9 -	3	7.9 7.8 -	1.7 3.5	1.3 2.3	0	4 6 -	1.0 1.5	0	9 6 12	2.5 0.8 1.8	0 0 0	20.8 17.9	23.8 20.9	58 63 -	0	3 3 -	- 77 -	- 4 -	- 44.7 -	- 13.3 -	- 11.4 -
Fairfield* Livermore Martinez	10 16	0 2	4 10	0.0 1.0	8 11	0 6	7.0 8.2	- 4.8	- 2.5	0	8	- 1.7	0	- - 7	- - 1.2	- - 0	- 21.5	- 24.5	- 64	0	2	- 62 -	0	- 47.7	- 13.8	- 12.3
Pittsburg	11	0	4	0.0	10	2	7.4	6.2	2.5	0	5	1.3	0	14	2.5	0	21.1	23.7	73	0	3	-	-	-	-	-
South Central Bay					_																					
Fremont Hayward Redwood City San Leandro	11 9 9 10	0 0 0 0	3 0 0 1	0.0 0.0 0.0 0.0	7 7 6 6	0 0 0 0	6.1 6.2 5.3 5.4	3.7 - 5.8 -	2.2 - 2.8 -	0 - 0 -	6 - 7 -	1.9 - 1.7 -	0 - 0 -	- - -	- - -	- - -	20.0 - 19.5 -	22.5 - 22.0 -	52 - 53 -	0 - 0 -	1 - 1 -	48 - 43 -	0 - 0 -	41.6 - 41.8 -	12.5 - 11.5 -	11.4 - 11.3
Santa Clara Valley Gilroy* Los Gatos*	12 11	0	6	* 0.0	9	2 2	5.2 6.9	-	-	- -	-	- -	-	- -	- -	- -	-	- -	-	- -	- -	- -	- - -	- -	-	<u> </u>
San Jose Central* San Jose East San Jose, Tully Road	* 9 -	* 0	* 0 -	0.0	* 7 -	* 0 -	* 5.4 -	5.3 - -	4.5 - -	0 -	8 -	* - -	0 -	- - -	- - -	- - -	* - 21.9	* - 25.4	70 - 70	0 - 0	2 - 2	58 - 54	0 - 0	* - 45.9	* - 12.0	* - 11.8
San Martin Sunnyvale*	12 9	0	8	0.0	10 7	5 0	8.2 *	-	-	-	-	-	-	- -	- -	- -	-	-	-	- -	- - -	- -	- -	-	-	-
Total Bay Area Days over Standard		2	16			7		*Se	e not	0 es of	explar	ation	0 on ba	ck of th	is pa	0 ge				0	6		5			

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NOTES

The annual Bay Area Air Pollution Summary summarizes measurements for the federal and California time-averaged pollutant standards.

This is the first year the Air Pollution Summary is reporting PM_{2.5} statistics.

*Station Information (see asterisks on front page)

The Fairfield monitoring station was relocated on May 29, 2002.

The Gilrov station was closed for the year 2000, due to construction activity. All 3-year average statistics for Gilroy have been omitted from this summary.

The Los Gatos station was closed from October 10 to December 3, 2002, due to construction on site.

The San Jose 4th Street station was closed for relocation on April 30, 2002. It reopened as San Jose Central on October 5, 2002. Ozone statistics and annual nitrogen dioxide, PM10, and PM2.5 statistics for San Jose Central have been omitted from this summary.

The San Pablo station was closed for relocation on August 24, 2002, and reopened on September 13, 2002. Annual statistics for San Pablo have been omitted from

The Sunnyvale station opened in 2001. All 3-year average statistics for Sunnyvale have been omitted

Explanation of Terms

State and federal excesses occur when pollutant concentrations surpass the indicated standards, with values in most cases rounded to the same number of decimal places.

MAX HR / MAX 8-HR / MAX 24-HR

The highest average contaminant concentration over a one-hour period, an eight-hour period (on any given day), or a 24-hour period (from midnight to midnight).

NAT DAYS

The number of days during the year for which the monitoring station recorded contaminant concentrations in excess of the national standard.

CAL DAYS

The number of days during the year for which the station recorded contaminant levels in excess of the California standard.

3-YR AVG (1-hr ozone standard)

The average number of days per year during which ozone levels were in excess of the national 1-hour standard, based on the most recent three-year period. An average higher than 1.0 at any monitoring station means the region will be considered out of attainment by

3-YR AVG (8-hr ozone standard)

The 3-year average of the fourth highest 8hour average ozone concentration for each monitoring station. A 3-year average greater than 8.4 at any monitoring station means that the region will be considered out of attainment by the EPA.

3-YR AVG (PM_{2.5} 24-hour standard)

The 3-year average of the annual 98th percentiles of the individual 24-hour concentrations of PM2.5. A 3-year average greater than 65 µg/m³ at any monitoring station means that the region will be considered out of attainment by the EPA.

3-YR AVG (PM_{2.5} annual standard)

The 3-year average of the quarterly averages of PM_{2.5}. A 3-year average greater than 15 µg/ m³ at any monitoring station means that the region will be considered out of attainment by the EPA.

ANN AVG

The yearly average (arithmetic mean) of the readings taken at a given monitoring station.

ANN GEO MEAN

The annual geometric mean concentration level (used for PM₁₀). The geometric mean of npositive numbers is the *n*th root of their product.

Particulate matter ten microns or smaller in size. (PM₁₀ is only sampled every sixth day. Actual days over standard can be estimated to be six times the number shown.)

Particulate matter 2.5 microns or smaller in size. PM_{2.5} is a sub-category of PM 10.

TOTAL BAY AREA DAYS OVER STANDARD is

not a sum of excesses at individual stations, but rather of the number of days for which excesses occurred at any one or more stations.

HEALTH-BASED AMBIENT AIR QUALITY STANDARDS

Pollutant	Averaging Time	(California Std	National Std
Ozone	1 Hour 8 Hour		9 pphm	12 pphm 8 pphm
Carbon Monoxide	1 Hour 8 Hour		20 ppm 9.0 ppm	35 ppm 9 ppm
Nitrogen Dioxide	1 Hour Annual		25 pphm	
Sulfur Dioxide	24 Hour Annual		40 ppb	140 ppb 30 ppb
Particulates < 10 microns	24 Hour Annual Annual Geometric Mean		50 μg/m ³ — 30 μg/m ³	150 μg/m ³ 50 μg/m ³
Particulates < 2.5 microns	24 Hour Annual		_	65 μg/m ³ 15 μg/m ³

pphm ppb ι *μ*α/m³ ppm Concentrations parts per million parts per hundred million parts per billion micrograms per cubic meter

TEN-YEAR BAY AREA AIR QUALITY SUMMARY

DAYS OVER STANDARDS													
	CARI	BON N	/ONO	XIDE	Nitrogen Sulfur Dioxide			PN	PM _{2.5}				
YEAR			8-Hr Nat	1-Hr Nat Cal		8-Hr Nat Cal		1-Hr Cal	24-Hr Nat Cal		24-Hr* Nat Cal		24-Hr** Nat
1993	3	19	-	0	0	0	0	0	0	0	0	10	-
1994	2	13	-	0	0	0	0	0	0	0	0	9	-
1995	11	28	-	0	0	0	0	0	0	0	0	7	-
1996	8	34	-	0	0	0	0	0	0	0	0	3	-
1997	0	8	-	0	0	0	0	0	0	0	0	4	-
1998	8	29	16	0	0	0	0	0	0	0	0	5	-
1999	3	20	9	0	0	0	0	0	0	0	0	12	-
2000	3	12	4	0	0	0	0	0	0	0	0	7	1
2001	1	15	7	0	0	0	0	0	0	0	0	10	5
2002	2	16	7	0	0	0	0	0	0	0	0	6	5
				*PM ₁₀ is sampled every sixth day—actual days over standard which the Air Dis									

can be estimated to be six times the numbers listed.

PM25 levels.